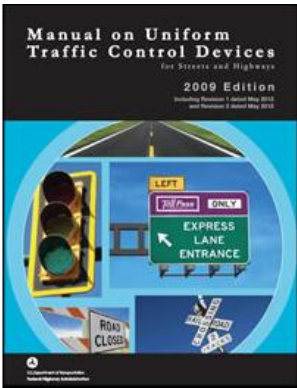


# 2009 MUTCD, Part B Sections 2,6,7,8 and 9



Chester A. Henson, P.E.



## PART 2 SIGNS

### Section 2A - General



Size of sign lettering should be based on 1 inch of letter height per 30 feet of legibility

- Based on 20/40 vision
- Currently 1 inch per 40 feet



## PART 2

SIGNS

### Section 2B – Regulatory Signs



# Larger Minimum Sizes for Certain Signs on Multi-lane Roads



Table 2B-2  
Minimum Sizes for Signs Facing Traffic on  
Multi-lane Conventional Roads

Sign	Sign Designation	Minimum Size	Old Requirement
Speed Limit	R2-1	30 X 36	24 X 30
Right Lane Must Turn Right	R3-7	36 X 36	30 X 30
Do Not Enter	R5-1	36 X 36	30 X 30
One Way	R6-1	54 X 18	36 X 12
No Turn on Red	R10-11	36 X 48	24 X 30




Variant of “Yield Here to Pedestrians”  
Signs for Stop Condition




New Optional Signs for Enforcement  
of Start of Turn Lanes






**ONLY**

**NO CASH**



New Regulatory Signs for Lanes  
Restricted to ETC Only




New Regulatory Signs for  
Toll Plazas

**PAY  
TOLL**

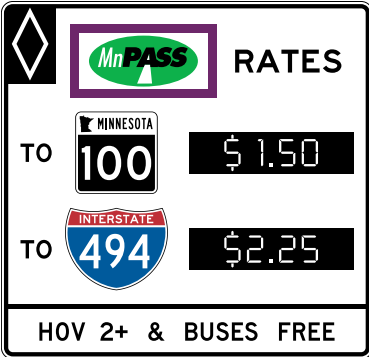
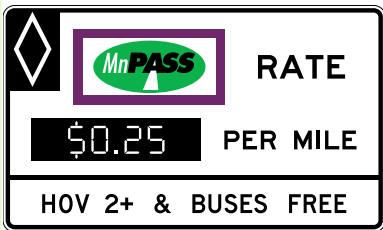
**TAKE  
TICKET**

**TOLL**

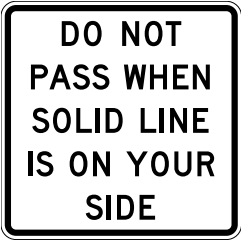
TWO AXLE VEHICLES	\$ 1.25
EACH ADDITIONAL AXLE	\$0.75




# New Signs for Managed Lanes With Variable Toll Rates



# New Regulatory Signs



This Regulatory Sign Deleted and Replaced With a Guide Sign Design



2012 Design Training Expo

New Narrow Keep Right Sign for Narrow Median Noses



2012 Design Training Expo


COMMERCIAL  
VEHICLES  
EXCLUDED

NO  
COMMERCIAL  
VEHICLES

PEDESTRIANS  
BICYCLES  
MOTOR-DRIVEN  
CYCLES  
PROHIBITED

NO  
PEDESTRIANS  
BICYCLES  
MOTOR-DRIVEN  
CYCLES


“Excluded”  
and  
“Prohibited”  
Changed to  
“NO”



Regulatory  
Signs for  
Crossovers

FOR  
OFFICIAL  
USE  
ONLY

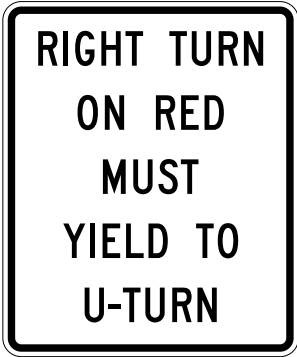
AUTHORIZED  
VEHICLES  
ONLY



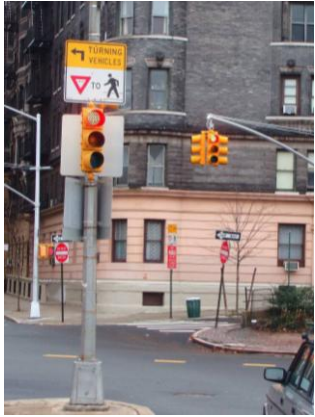
8



New Optional  
Sign to  
Remind RTOR  
Drivers to  
Yield to  
U-Turners



R10-15



New Symbolic Design  
for the R10-15 Sign



# Incident Management “Move-It” Law Sign



## PART 2 SIGNS

### Section 2C – Warning Signs



# Fluorescent Yellow-Green Color

Recommended for pedestrian,  
bike, and playground signs



# Fluorescent Yellow-Green Color

Required for school signs



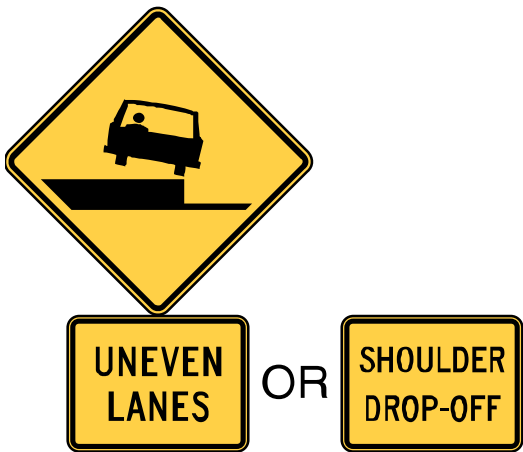
36" x 36" Minimum Size for all  
Diamond-Shaped Warning Signs on  
Multi-Lane Conventional Roads



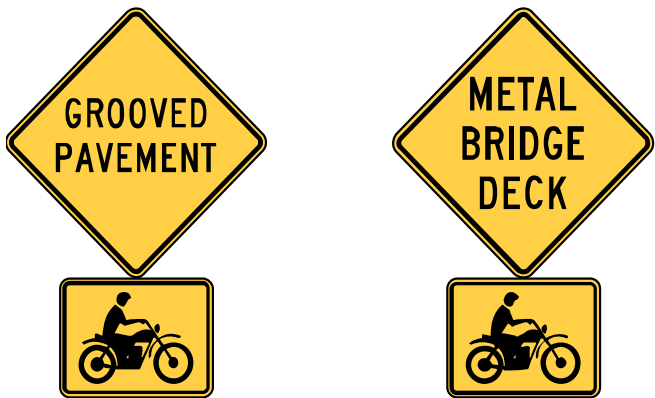
New Combination Horizontal  
Alignment/Advisory Exit or Ramp  
Speed Signs



### New Uneven Lanes or Shoulder Drop-Off Sign and Plaques



### New Signs and Plaque to Warn of Conditions That Primarily Affect Motorcyclists




Warnings of Toll Road Ahead and Tollbooth Ahead

**TOLL ROAD  
BEGINS  
1 MILE**

**TOLL ROAD  
BEGINS**

**PAY TOLL  
1 MILE  
CARS 75¢**

**STOP AHEAD  
PAY TOLL  
CARS 75¢**




New Plaques Related to Toll Roads


**LAST EXIT BEFORE TOLL**

**PAY TOLL 1 MILE - CARS 75¢**


**STOP AHEAD - PAY TOLL**



### New Plaque for Circular Intersection Warning




W2-6



W16-12P

OR



W16-17P

2012  
Design Training  
EXPO

### New Sign and Plaque for Combined Pedestrian/Bicycle Crossing





2012  
Design Training  
EXPO

## PART 2

SIGNS

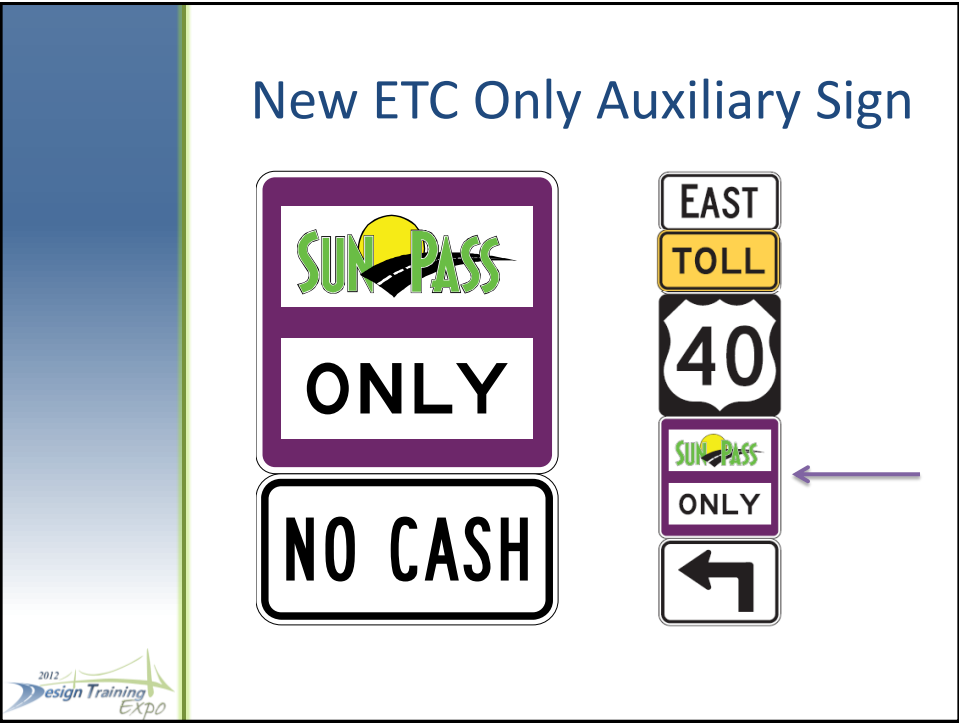
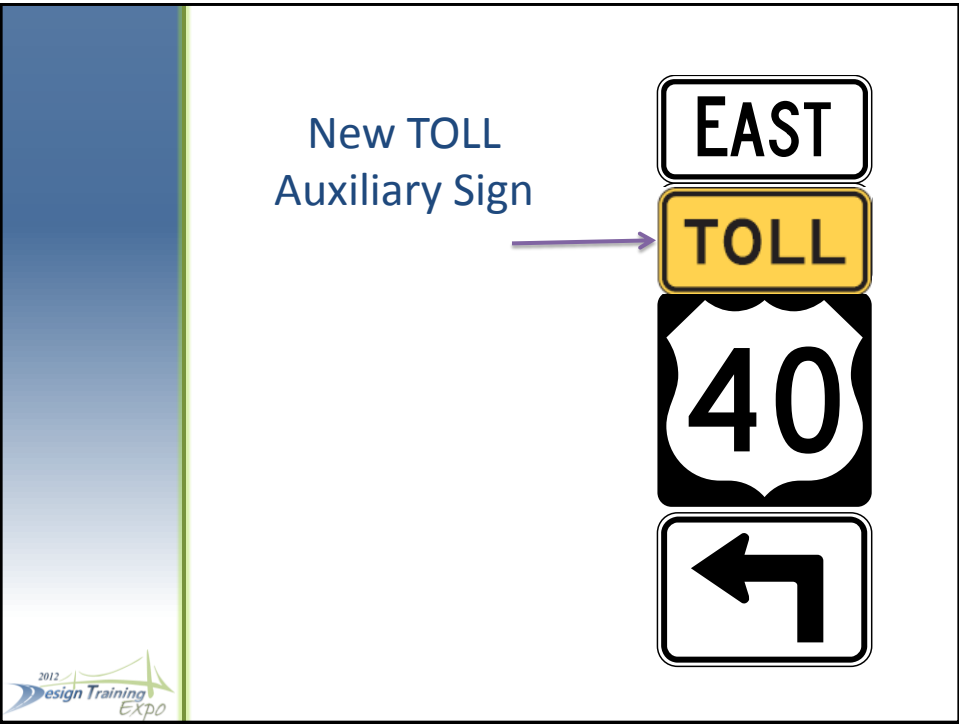
### Section 2D – Guide Signs for Conventional Roads



### Provisions for Use of Pictographs on Guide Signs







## Lane Designation Auxiliary Signs



## New Table for Letter Heights on Street Name Signs

Type of Mounting	Type of Street or Highway	Speed Limit	Recommended Minimum Letter Height	
			Initial Upper-case	Lower-case
Overhead	All types	All speed limits	300 mm (12 in)	225 mm (9 in)
Post-mounted	Multi-lane	More than 60 km/h or 40 mph	200 mm (8 in)	150 mm (6 in)
Post-mounted	Multi-lane	60 km/h or 40 mph or less	150 mm (6 in)	113 mm (4.5 in)
Post-mounted	2-lane	All speed limits	150 mm* (6 in)	113 mm* (4.5 in)

\* On local 2-lane streets with speed limits of 40 km/h or 25 mph or less, 100 mm (4 in) initial upper-case letters with 75 mm (3 in) lower-case letters may be used.





Only Alternatives to Green Street Name Sign Background Color Will be Blue, Brown, or White



On Multi-Lane Conventional Road Approaches to Interchanges, Guide Signs Identifying the Direction of Turn or Lane to Use for Each Ramp Shall be Provided





PART 2  
SIGNS

Section 2E – Guide Signs for  
Freeways and Expressways


New Diagrammatic Signs Required  
for “Option-Lane” Exits and Splits



2012  
Design Training  
EXPO

LEFT  
EXIT 17

NORTH  Frederick  
2 MILES  
EXIT ONLY

EAST  Baltimore

For Lane Drops Without an “Option Lane”, EXIT ONLY Panel With Down Arrow(s) Required on all Overhead Advance Guide Signs



EXITS 33 A-B

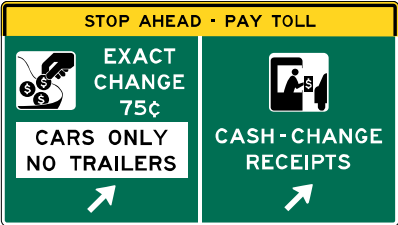
Space required between number and letter







# Guide Signs for Toll Plazas and Open-Road ETC Lanes



## PART 7

TRAFFIC CONTROL FOR SCHOOL AREAS



### FYG Color Required for All School Warning Signs

School Advance Crossing Assembly

S1-1

W16-9P

OR

200 FT

W16-2aP

OR

200 FEET

W16-2P

School Crossing Assembly

S1-1

W16-7P

School Area or School Zone Sign

S1-1

S4-3P (optional)

School Speed Limit Assembly

S4-3P

R2-1

S4-1P

S4-2P

S4-4P

S4-1P

S4-6P

R2-1(M)

S3-1

S3-2

S4-5

S4-5a


2012 Design Training Expo

### New Symbol Sign to Replace the Word Message S3-1 Sign


2012 Design Training Expo

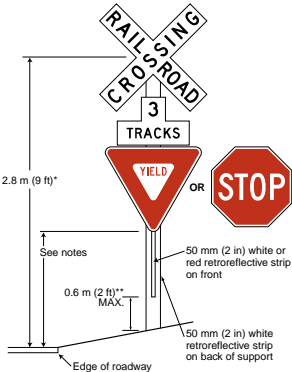
PART 8


TRAFFIC CONTROL FOR RAILROAD AND LIGHT RAIL TRANSIT GRADE CROSSINGS



STOP or YIELD Signs Shall be Posted at  
All Passive Grade Crossings

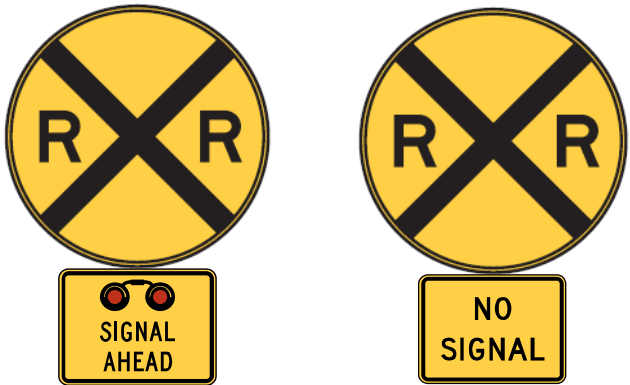




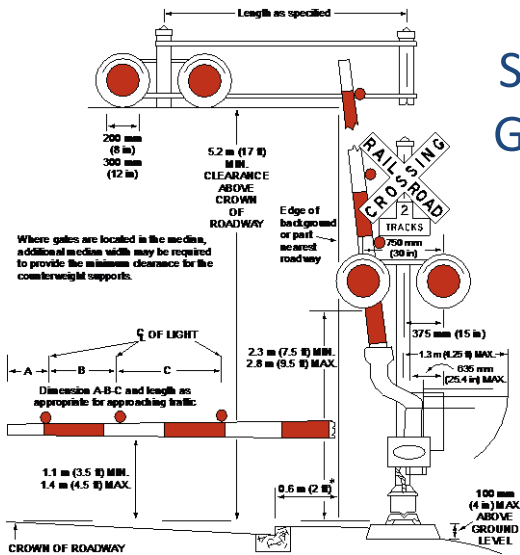




# Supplemental Plaques Describing the Type of Control Shall be Used With Advance Warning Signs



# Stripes on Gate Arms Shall be Vertical




\* For locating this reference line at other than curb section installation, see Section 8C.01.






PART 9

TRAFFIC CONTROL FOR BICYCLE FACILITIES



Bike Lane Regulatory Signs  
Changed from Requirement  
to Recommendation





26

# New Sign and Plaque for Combined Pedestrian/Bicycle Crossing

